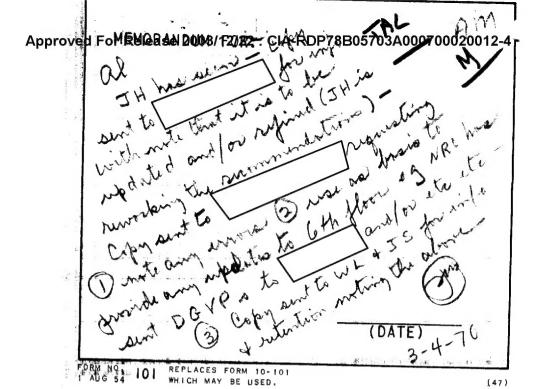
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Existing Processing and Exploitation Capabilities Related to Acquisition of Middle East Photo Coverage by the U2-R or SR-71

ASSUMPTIONS AND TERMS

- 1. We assume that coverage of the Middle East will be acquired with either the SR-71 cameras, or the U2-R 111B (H) or IRIS II camera systems using black and white film.
- 2. For the purpose of this memo conventional processing is defined as the single gamma spray processing currently available at all processing sites mentioned. Dual gamma viscous processing is considered to be unconventional processing since it involves special equipment and trained 25X1 personnel presently available Dual gamma viscous processing, however, would be the best way to process all aircraft photography acquired in the Middle East since it provides optimum quality by assisting in compensating for over-exposure conditions.
- This memo gives primary consideration to collection by one flight in a one-time crisis effort. For continual photo coverage over a long period of time, statements are included in the covering recommendations.
- The preparation of major processing sites by various Government Agencies for optimum processing, reproduction and exploitation of photo products is an on-going effort, and therefore the information provided herein is subject to change. (e.g. NRO is now shipping dual gamma processing 25X1 equipment 25X1

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SUBJECT: Existing Processing and Exploitation Capabilities Related to Acquisition of Middle East Photo Coverage by the U2-R or SR-71

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5. NPIC can provide support in all facets of reproduction and exploitation if needed and requested. In any case, the original negative would be sent on to the U.S. for further reproduction and exploitation.

ALTERNATIVES

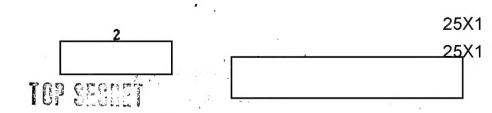
Several alternatives are available for effective processing, reproduction and exploitation of special mission products. Listed below are the existing processing and exploitation sites along with their major advantages and disadvantages.*

A. Aircraft Carrier - U2-R Only - Process and exploit film on an aircraft carrier: The OSA assures the Community that the capability for landing a U2-R aircraft on a carrier would be available. The main advantage would be rapid exploitation of imagery.

Disadvantages include:

1. Conventional processing of the original negative would be under field conditions with equipment and personnel that are not checked out for this type of U2-R effort, and which have never processed original negatives from the 111B, IRIS II cameras. Dual gamma processing would require modifications to existing equipment or use of special "fly-away kits," and training of personnel.

*See attached table.



SUBJECT: Existing Processing and raprocestion Capabilities Related to Acquisition of Middle East Photo Coverage by the U2-R or SR-71

	2. PI's, PI equipment and collateral on the designated air-
	craft carrier would have to be evaluated prior to the first mission
	flight, and might have to be supplemented.
25X1	B. U2-R or SR-71 with flight terminating in Europe and
	readout beginning within three-to-six hours.
	1. Advantages include:
25X1	a. has proven its capability for conventional
	processing of original negatives in a recent 25X1
	exercise** involving three missions.
25X1	b. has a TKH facility staffed with at least
	20 PI's, and can draw on the USAFUR for additional PI's (some
	originally from NPIC).
	c. PI equipment and collateral are available, with
	collateral especially oriented toward Russian equipment
	readout. EXSUBCOM is taking action to provide COMIREX
	exploitation target lists to the 25X1
-9	2. Disadvantage: has never processed original 25X1
	negatives from the 111B, IRIS II cameras and the SR-71 cameras.
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Existing Processing and Exploitation Capabilities Related to SUBJECT: Acquisition of Middle East Photo Coverage by the U2-R or SR-71

> Complete photo science support (in the form of providing special enlargements, density cuts and special contrast transparencies, etc.) would be available to the PI's.

- 2. Disadvantages include: Bad weather could delay flight traffic involving film shipments.
- SPPF Westover AFB U2-R and SR-71 with readout beginning within nine-to-eighteen hours after flight terminates in Europe or threeto-six hours if flight terminates in U.S.
 - 1. Advantages include:
 - PI's, equipment and collateral could be sent to the processing site if crisis type readout is required when it is known the mission was successful. Readout could be done at NPIC within a few hours after the film is processed at SPPF.
 - SPPF has proved its capability for conventional processing of original negative material.
 - Reproduction of material could begin almost simultancously with arrival of the original negative.
 - Some photo science support could be made available to PI's sent to Westover.
 - Disadvantages include:
 - Bad weather could delay flight traffic involving film shipments.

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Existing Processing and Exploitation Capabilities Related to SUBJECT: Acquisition of Middle East Photo Coverage by the U2-R or SR-71

- SPPF has very limited PI equipment available at this time.
- SPPF has never processed original negatives from the 111B, IRIS II cameras and the SR-71 cameras.
- U2-R and SR-71 with readout beginning nine-to-eighteen F. hours after flight terminates in Europe or three-to-six hours if flight terminates in U.S.
 - 1. Advantages include:
 - has proven that it can conventionally process the original negatives from both 111B and IRIS II cameras, and could handle the SR-71 film.
 - b. PI's, their equipment and some collateral are at the facility. NPIC could provide support as needed and requested. Quick reproductions can be made available to NPIC within two-to-three hours after original negative processing is complete at

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SUBJECT: Existing Processing and Exploitation Capabilities Related to Acquisition of Middle East Photo Coverage by the U2-R or SR-71

SUMMARY AND RECOMMENDATIONS

- 1. The purpose of special aircraft photo reconnaissance of Egypt would be to increase our chances of detecting -- at an early date -- any Soviet delivery and deployment to Egypt of additional types of weapons For that purpose, the quality of the photography as obtained and processed could be a critical input to the photo interpreter's ability to identify and distinguish between subtle shapes and dimensions such as of crates, differing versions of a given type of military aircraft, and relatively small missile systems.
- 2. Given the choice, the photo interpreter should be provided with the best quality film possible for the purpose. The best quality readout will be obtained through processing the film and conducting 25X1 the interpretation at NPIC. The disadvantage could be the time this course would take -- some three to eighteen hours from the time of photography to the beginning of the readout depending on the place of flight termination.
- If time is too critical to permit that course to be taken, then the best alternative way to serve the purpose would be to process and exploit the film at The disadvantages to this course include less than the best processing quality, less than the best exploitation conditions, and the probability that any significant finds must be verified by moving the relevant film to Washington for confirmation readout.

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!5X1					Approved For I	Release 2003/12/	Z CIA REPARE	25X1 05703A00070002001 25X1	2-4 ATTACHM	ENT to:	
	Site	Convention ON Processing		Dual Gamma Viscous Processing	PIs Available	PIs Equipment Available	PI Collateral Available	Reproduction Capability	Photo Science Support	Reaction Time after Flt Terminates	s Comments
	Aircraft							4.7			
	Carrier	yes		no*	yes	yes .	уеs	Very limited	no.	Minutes	Selected carrier should be checked prior to flight to determine
(*							specific quali- ty of capabili- ties. NPIC support could
							; A		3		be provided if needed and requested.
			•		* ·			-4 -			*A fly-away kit may be provided for dual gamma processing;
25X1							•				however, person- nel training would be re- quired.
ž.						•			* .	1	quiicu.
<u> </u>		yes		no*	yes	yes	yes	Limited	no	3-6 hrs.	*Dual gamma viscou: processing will be available in a few months.
	-								:		
v					*			25X1 .			

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25X1 25X1 Approved For Release 2003/12/22 : CIA-RDP78B057p3A000700020012-4 25X1 Conventional Dual Gamma PIs Reaction Time After **f**lt Terminates PI Photo PIs ON Viscous Equipment Collateral Reproduction 25X1 Science Site Processing Capability Processing Available Available Available Comments Support no 🤄 3-6 hrs. yes yes Limited no yes yes yes no** Extensive 9-18 hrs. *NPIC PIs would yes yes have time to be in place when film arrives. **PIs would have to bring their collateral. SPPF *DGV processing will be avail-9-18 hrs. (Westover) no* no** yes*** no** Extensive yes ves able shortly. **PIs and collateral would have time to be emplaced prior to arrival of film. ***PIs could use film handling table and

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scopes avail-able at site.

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25X1 ĈĨÁ-RĎP78B05Z03A000700020012-4 Approved For Release 2003/ft2/22 Photo Reaction PIs PI Conventional Dual Gamma Equipment Available PIs Collateral Reproduction Science Time After onViscous 25X1 Flt Terminates Processing Available Available Capability Support Processing *NPIC support (i.e., PIs, Extensive no** 9-18 hrs. yes* yes equipment, and collateral)
could be available in a matter of minutes if needed and requested. **Photo Science Support could be conducted at NPIC. 9th Strategic Extensive 9-18hrs. yes Recon Wing no yes Beale AFB

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